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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/991,596	11/21/2001	Nagendra Nagarajayya	SUN-P6305	7581

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EXAMINER

BROSS, EDWARD J

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/991,596

Applicant(s)

NAGARAJAYYA ET AL.

Examiner

Edward Bross

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-21 are pending in this application.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Software Distribution Sockets for OS/2 (IBM TDB NN9312337) in view of Chen et al. (6,158,011).

4. As to claims 1, 7, 13, 16, 17 and 21, IBM TDB discloses a method for moving data between processes in a computer-based system (p. 1, lines 4-7), each process calling for one or more symbols in a first library (the symbols in the BSD socket API normally associated with remote sockets), the method comprising:

associating each process with a second library, said second library comprising one or more symbols with an interprocess communication mechanism, said interprocess mechanism enabling each process to set up an initial connection (the local IPC module p. 1 line 25 – p. 2 line 2);

intercepting a call from each process for a symbol in said first library; and

redirecting said call to a corresponding symbol in said second library (implied behavior when communicating between two processes on the same machine).

5. IBM TDB does not explicitly disclose the interception of a call to one library and redirecting the call to a second library, the use of a door interprocess communication mechanism, or the use of a semaphore and mapped memory.

6. Chen discloses the interception of a call to one library and redirecting the call to a second library (col. 7 lines 1-8). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the library interception method of Chen in the system of IBM TDB as this provides a seamless way to implement the same API with the local and remote communication mechanisms of IBM TDB.

7. Chen does not disclose the use of a door interprocess communication mechanism or the use of a semaphore and mapped memory. However, door interprocess communication mechanism and use of a semaphore with mapped memory are well known in the art.

8. It would have been obvious to one of ordinary skill in the art at the time of the invention to use a door interprocess communication mechanism and a semaphore with mapped memory to implement the actual transfer of data in the Local IPC of IBM TDB as these are the most efficient communication mechanisms and would further IBM TDB's goal of high performance local process-process communication.

9. As to claims 2, 8 and 14, IBM TDB discloses said first library comprises one or more symbols associated with a socket interprocess communication mechanism (p. 1 lines 13-15).

10. As to claims 3, 9, and 15, IBM TDB discloses said associating further comprises dynamically linking each process with said second library ("separately loadable" implies dynamic linking p. 1 lines 25-27).

11. As to claims 4, 10 and 18, IBM TDB discloses said second library comprises one or more server-side symbols and one or more client-side symbols (i.e. those normally found in a the BSD Socket API).

12. As to claims 5, 11 and 19, IBM TDB discloses said server-side symbols further comprise a bind symbol, an accept symbol, a read symbol, and a write symbol (found in the BSD Socket API).

13. As to claims 6, 12 and 20, IBM TDB discloses said client-side symbols further comprise a connect symbol, a read symbol, and a write symbol (found in the BSD Socket API).

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Bross whose telephone number is 703-305-8754. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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